AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (Canceled) A method of restoring photoreceptor function in a vertebrate eye having a mutant opsin protein, comprising administering to the vertebrate an effective amount of an opsin-binding synthetic retinoid in a pharmaceutically acceptable vehicle, wherein the opsin-binding synthetic retinoid binds to and stabilizes the opsin protein in the eye.
- 2. (Canceled) The method of claim 1, wherein the opsin-binding synthetic retinoid is an 11-cis-7-ring retinal or a 9-cis-7-ring retinal.
- 3. (Canceled) The method of claim 2, wherein the synthetic retinoid is cycloheptatrienylidene 11-*cis*-locked retinal or cycloheptatrienylidene 9-*cis*-locked retinal.
- 4. (Canceled) The method of claim 1, wherein the opsin-binding synthetic retinoid comprises a synthetic retinoid of formula I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII or XIII.
- 5. (Canceled) The method of claim 4, wherein the opsin-binding synthetic retinoid is a 9-*cis*-fused retinal.
- 6. (Canceled) The method of claim 1, wherein the opsin-binding synthetic retinoid is locally administered to the eye.

- 7. (Canceled) The method of claim 6, wherein the opsin-binding synthetic retinoid is locally administered by eye drops, intraocular injection or periocular injection.
- 8. (Canceled) The method of claim 1, wherein the opsin-binding synthetic retinoid is orally administered to a subject comprising the vertebrate eye.
- 9. (Canceled) The method of claim 1, wherein the mutant opsin protein is P23H mutant opsin protein.
- 10. (Canceled) A method for stabilizing mutant opsin protein, comprising: contacting with the mutant opsin protein with an opsin-binding synthetic retinoid for an amount of time sufficient for the formation of a stabilized opsin/synthetic retinoid complex.
- 11. (Canceled) The method of claim 10, wherein the opsin-binding synthetic retinoid comprises a synthetic retinoid of formula I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII or XIII.
- 12. (Canceled) The method of claim 11, wherein the opsin-binding synthetic retinoid is a 9-cis-locked retinal or an 11-cis-locked retinal.
- 13. (Canceled) The method of claim 10, wherein the mutant opsin protein is a P23H mutant opsin protein.
- 14. (Canceled) The method of claim 13, wherein the opsin-binding synthetic retinoid is an 11-cis-7-ring retinal or a 9-cis-ring retinal.
- 15. (Canceled) The method of claim 14, wherein the opsin-binding synthetic retinoid is cycloheptatrienylidene 11-*cis*-locked retinal or cycloheptatrienylidene 9-*cis*-locked retinal.

16. (Currently Amended) A method of ameliorating loss of photoreceptor function in a vertebrate eye, comprising:

prophylactically administering an effective amount of an opsin-binding synthetic retinoid in a pharmaceutically acceptable vehicle to a vertebrate eye comprising a mutant opsin protein having a reduced affinity for 11-cis-retinal, wherein the synthetic retinoid binds to and stabilizes the mutant opsin protein is stabilized and loss of photoreceptor function is ameliorated.

- 17. (Original) The method of claim 16, wherein the opsin-binding synthetic retinoid is orally administered to a vertebrate.
- 18. (Original) The method of claim 16, wherein the opsin-binding synthetic retinoid is locally administered to the vertebrate eye.
- 19. (Original) The method of claim 16, wherein the opsin-binding synthetic retinoid comprises a synthetic retinoid of formula I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII or XIII.
- 20. (Currently Amended) The method of claim 19, wherein the opsin-binding synthetic retinoid is a 9-*cis*-7-ring retinal or an 11-*cis*-7-ring retinal and the mutant opsin protein is a P23H mutant opsin protein.
- 21. (Original) The method of claim 20, wherein the synthetic retinoid is cycloheptatrienylidene 11-*cis*-locked retinal or cycloheptatrienylidene 9-*cis*-locked retinal.
- 22. (Original) The method of claim 16, wherein the mutant opsin protein has a mutation in the N-terminal plug
- 23. (Canceled) An ophthalmologic composition comprising an opsinbinding synthetic retinoid in a pharmaceutically acceptable vehicle.

- 24. (Canceled) The composition of claim 23, wherein the opsin-binding synthetic retinoid comprises a synthetic retinoid of formula I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII or XIII.
- 25. (Canceled) The composition of claim 24, wherein the opsin-binding synthetic retinoid is a 9-cis-7-ring retinal or an 11-cis-7-ring retinal.
- 26. (Canceled) The composition of claim 25, wherein the opsin-binding synthetic retinoid is cycloheptatrienylidene 11-*cis*-locked retinal or cycloheptatrienylidene 9-*cis*-locked retinal.
- 27. (Canceled) An oral dosage form comprising an opsin-binding synthetic retinoid in a pharmaceutically acceptable vehicle.
- 28. (Canceled) The composition of claim 27, wherein the opsin-binding synthetic retinoid comprises a synthetic retinoid of formula I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII or XIII.
- 29. (Canceled) The composition of claim 28, wherein the opsin-binding synthetic retinoid is a 9-*cis*-7-ring retinal or an 11-*cis*-7-ring retinal.
- 30. (Canceled) The composition of claim 29, wherein the opsin-binding synthetic retinoid is cycloheptatrienylidene 11-*cis*-locked retinal or cycloheptatrienylidene 9-*cis*-locked retinal.
- 31. (Canceled) A method of identifying an opsin-binding synthetic retinoid to stabilize a mutant opsin protein, comprising:

providing an expression system for the expression of a mutant opsin protein; contacting the mutant opsin protein with a synthetic retinoid for a time sufficient and in suitable conditions for the binding of the synthetic retinoid by the mutant opsin protein; and

detecting whether the mutant opsin protein binds the synthetic retinoid to form a stable mutant opsin protein/synthetic retinoid complex.

- 32. (Canceled) The method of claim 31, wherein the expression system is a eukaryotic cell line expressing the mutant opsin protein.
- 33. (Canceled) The method of claim 32, wherein the synthetic retinoid is administered to cell culture media in which the eukaryotic cell line is cultured.
- 34. (Canceled) The method of claim 31, wherein the opsin-binding synthetic retinoid comprises a synthetic retinoid of formula I, II, III, IV, V, VI, VII, VIII, IX, X, XI, XII or XIII.
- 35. (New) The method of claim 18, wherein the opsin-binding synthetic retinoid is locally administered by eye drops.
- 36. (New) The method of claim 18, wherein the opsin-binding synthetic retinoid is locally administered by intraocular injection.
- 37. (New) The method of claim 18, wherein the opsin-binding synthetic retinoid is locally administered by periocular injection.
- 38. (New) The method of claim 16, wherein the synthetic retinoid is an 11-cis-7-ring retinal.
- 39. (New) The method of claim 16, wherein an 11-cis-7-ring retinal is orally administered to a vertebrate.
- 40. (New) The method of claim 16, wherein an 11-cis-7-ring retinal is locally administered to the vertebrate eye.
- 41. (New) The method of claim 40, wherein an 11-cis-7-ring retinal is locally administered by eye drops.

- 42. (New) The method of claim 40, wherein an 11-cis-7-ring retinal is locally administered by intraocular injection.
- 43. (New) The method of claim 40, wherein an 11-cis-7-ring retinal is locally administered by periocular injection
- 44. (New) The method of claim 16, wherein the mutant opsin protein is a P23H mutant opsin protein.
- 45. (New) The method of claim 16, wherein the loss of photoreceptor function is due to retinitis pigmentosa.
- 46. (New) The method of claim 16, wherein the loss of photoreceptor function is due to a protein conformational disorder.